Ready, Set, Go!

Ready

Topic: Substitution and Solving Equations



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Determine whether h = 3 is a solution to each problem.

$$1.3(h-4) = -3$$

2.
$$3h = 2(h+2) - 1$$

$$3. 2h - 3 = h + 6$$

$$4. 3h > -3$$

5.
$$\frac{3}{5} = h \times \frac{1}{5}$$

Determine the value of x that makes each equation true.

6.
$$4x - 2 = 8$$

$$7.3(x+5) = 20$$

$$8. 2x + 3 = 2x - 5$$

Set

Topic: Creating equations, solving real world problems, solve systems of equations

A phone company offers a choice of three text-messaging plans. Plan A gives you unlimited text messages for \$10 a month; Plan B gives you 60 text messages for \$5 a month and then charges you \$0.05 for each additional message; and Plan C has no monthly fee but charges you \$0.10 per message.

- 9. Write an equation for the monthly cost of each of the three plans.
- 10. If you send 30 messages per month, which plan is cheapest?
- 11. What is the cost of each of the three plans if you send 50 messages per month?
- 12. Determine the values for which each plan is the cheapest?

Go

Topic: Solve literal equations

Re-write each of the following equations for the indicated variable.

13.
$$3x + 5y = 30$$
 for y

14.
$$24x + 6y = 360$$
 for x

15.
$$\frac{1280 - 80d}{32} = c$$
 for d

16.
$$C = \frac{5}{9}(F - 32)$$
 for F

17.
$$y = mx + b$$
 for b

18.
$$Ax + By = C$$
 for y

Need help? Check out these related videos.

What does it mean to be a solution?

 $\frac{\text{http://patrickjmt.com/an-intro-to-solving-linear-equations-what-does-it-mean-to-be-a-solution/http://patrickjmt.com/solving-linear-equations/}$

Solving for a variable.

http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-for-a-variable